Comp tari conexe din matricea drumurilor

#include <iostream> #include <fstream> using namespace std;

ifstream fin("date.in"); ofstream fout("date.out"); int a[10][10], viz[10], n, m, i, j, k;

void rw() { int i, j, k;

for (k=1;k<=n; k++) for (i=1;i<=n; i++) for (j=1;j<=n; j++)

if(i!=j) if(a[i][j]==0) a[i][j]=a[i][k]\*a[k][j]; }

int main() { fin>>n>>m; for(k=1; k<=m; k++) {fin>>i>>j; a[i][j]=1;}

rw(); fout<<"Comp tare conexe sunt: "<<endl;

for(i=1; i<=n; i++)

**if (viz[i]==0)**

{ fout<<i<<" "; viz[i]=1;

for(j=1; j<=n; j++)

if (a[i][j]\*a[j][i]==1)

{fout<<j<<" "; viz[j]=1;}

fout<<endl;

}

fin.close(); fout.close(); return 0; }

|  |  |
| --- | --- |
| Date.in  7 10  1 2  1 3  2 6  3 6  3 2  6 1  3 4  4 5  4 7  7 4 | Date.out  Comp tare conexe sunt:  1 2 3 6  4 7  5 |